

**DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, we hereby declare that our residence, post office address and citizenship are as stated below next to our names: that we verily believe we are the original, first and joint inventors of and the subject matter claimed and for which a patent is sought in the application entitled: **CHLAMYDIA OLIGOSACCHARIDES**, which application has Serial No. 09/230,346 filed 25 January 1999; that we reviewed and understand the contents of the specification of the above-identified application, including the claims; that we acknowledge our duty to disclose information of which we are aware which is material to the patentability of this application under 37 C.F.R. 1.56;

We hereby claim the benefit of Title 35, United States Code §120 of any United States applications listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in a listed prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, We acknowledge our duty to disclose any information material to the patentability of this application under 37 C.F.R. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.  
08/672,849

Country  
US

Filing Date  
7/25/96

Priority Claimed  
No

We hereby appoint John H. Mion, Reg. No. 18,879; Thomas J. Macpeak, Reg. No. 19,292; Robert J. Seas, Jr., Reg. No. 21,092; Darryl Mexic, Reg. No. 23,063; Robert V. Sloan, Reg. No. 22,775; Peter D. Olexy, Reg. No. 24,513; J. Frank Osha, Reg. No. 24,625; Waddell A. Biggart, Reg. No. 24,861; Louis Gubinsky, Reg. No. 24,835; Neil B. Siegel, Reg. No. 25,200; David J. Cushing, Reg. No. 28,703; John R. Inge, Reg. No. 26,916; Joseph J. Ruch, Jr., Reg. No. 26,577; Sheldon I. Landsman, Reg. No. 25,430; Richard C. Turner, Reg. No. 29,710; Howard L. Bernstein, Reg. No. 25,665; Alan J. Kasper, Reg. No. 25,426; Kenneth J. Burchfiel, Reg. No. 31,333; Gordon Kit, Reg. No. 30,764; Susan J. Mack, Reg. No. 30,951; Frank L. Bernstein, Reg. No. 31,484; Mark Boland, Reg. No. 32,197; William H. Mandir, Reg. No. 32,156; Scott M. Daniels, Reg. No. 32,562; Brian W. Hannon, Reg. No. 32,778; Abraham J. Rosner, Reg. No. 33,276; Bruce E. Kramer, Reg. No. 33,725; Paul F. Neils, Reg. No. 33,102; Brett S. Sylvester, Reg. No. 32,765; Robert M. Masters, Reg. No. 35,603 and George F. Lehnigk, Reg. No. 36,359, our attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to **SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC**, 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that the statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing therefrom.

Date 2/19/99 First Inventor Cho-chou Kuo  
 Residence Seattle WA/USA Signature Cho-chou Kuo  
 City State/Country  
 Post Office Address: Department of Pathobiology, Box 357238  
University of Washington  
Seattle, WA 98195  
 Citizenship USA

Date \_\_\_\_\_ Second Inventor Albertina F. Swanson  
First Name Middle Initial Last Name  
Residence Tucson AZ/USA Signature \_\_\_\_\_  
City State/Country  
Post Office Address: 10400 W. Rudasil Rd.  
Tucson, AZ 85743  
\_\_\_\_\_  
\_\_\_\_\_  
Citizenship USA

Date \_\_\_\_\_ Third Inventor Sen-Itiroh Hakomori  
First Name Middle Initial Last Name  
Residence Seattle WA/USA Signature \_\_\_\_\_  
City State/Country  
Post Office Address: Pacific Northwest Research Foundation  
720 Broadway  
Seattle, WA 98122  
\_\_\_\_\_  
\_\_\_\_\_  
Citizenship USA

Date \_\_\_\_\_ Fourth Inventor Noriko Takahashi  
First Name Middle Initial Last Name  
Residence Aichi JAPAN Signature \_\_\_\_\_  
City State/Country  
Post Office Address: 1-105 Shoei-cho, Mizuho-ku  
Nagoya 467  
Japan  
\_\_\_\_\_  
\_\_\_\_\_  
Citizenship Japan

**DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, we hereby declare that our residence, post office address and citizenship are as stated below next to our names: that we verily believe we are the original, first and joint inventors of and the subject matter claimed and for which a patent is sought in the application entitled: **CHLAMYDIA OLIGOSACCHARIDES**, which application has Serial No. 09/230,346 filed 25 January 1999; that we reviewed and understand the contents of the specification of the above-identified application, including the claims; that we acknowledge our duty to disclose information of which we are aware which is material to the patentability of this application under 37 C.F.R. 1.56;

We hereby claim the benefit of Title 35, United States Code §120 of any United States applications listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in a listed prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, We acknowledge our duty to disclose any information material to the patentability of this application under 37 C.F.R. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.  
08/672,849

Country  
US

Filing Date  
7/25/96

Priority Claimed  
No

We hereby appoint John H. Mion, Reg. No. 18,879; Thomas J. Macpeak, Reg. No. 19,292; Robert J. Seas, Jr., Reg. No. 21,092; Darryl Mexic, Reg. No. 23,063; Robert V. Sloan, Reg. No. 22,775; Peter D. Olexy, Reg. No. 24,513; J. Frank Osha, Reg. No. 24,625; Waddell A. Biggart, Reg. No. 24,861; Louis Gubinsky, Reg. No. 24,835; Neil B. Siegel, Reg. No. 25,200; David J. Cushing, Reg. No. 28,703; John R. Inge, Reg. No. 26,916; Joseph J. Ruch, Jr., Reg. No. 26,577; Sheldon I. Landsman, Reg. No. 25,430; Richard C. Turner, Reg. No. 29,710; Howard L. Bernstein, Reg. No. 25,665; Alan J. Kasper, Reg. No. 25,426; Kenneth J. Burchfiel, Reg. No. 31,333; Gordon Kit, Reg. No. 30,764; Susan J. Mack, Reg. No. 30,951; Frank L. Bernstein, Reg. No. 31,484; Mark Boland, Reg. No. 32,197; William H. Mandir, Reg. No. 32,156; Scott M. Daniels, Reg. No. 32,562; Brian W. Hannon, Reg. No. 32,778; Abraham J. Rosner, Reg. No. 33,276; Bruce E. Kramer, Reg. No. 33,725; Paul F. Neils, Reg. No. 33,102; Brett S. Sylvester, Reg. No. 32,765; Robert M. Masters, Reg. No. 35,603 and George F. Lehnigk, Reg. No. 36,359, our attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to **SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC**, 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that the statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing therefrom.

Date			First Inventor	Cho-chou Kuo		
				First Name	Middle Initial	Last Name
Residence	Seattle	WA/USA	Signature			
	City	State/Country				
Post Office Address:	Department of Pathobiology, Box 357238 University of Washington Seattle, WA 98195					
Citizenship	USA					

Date 3-5-99 Second Inventor Albertina F. Swanson  
Residence Tucson AZ/USA Signature Albertina F. Swanson  
City State/Country  
Post Office Address: 10400 W. Rudasil Rd.  
Tucson, AZ 85743  
Citizenship USA

Date \_\_\_\_\_ Third Inventor Sen-Itiroh Hakomori  
Residence Seattle WA/USA Signature \_\_\_\_\_  
City State/Country  
Post Office Address: Pacific Northwest Research Foundation  
720 Broadway  
Seattle, WA 98122  
Citizenship USA

Date \_\_\_\_\_ Fourth Inventor Noriko Takahashi  
Residence Aichi JAPAN Signature \_\_\_\_\_  
City State/Country  
Post Office Address: 1-105 Shoei-cho, Mizuho-ku  
Nagoya 467  
Japan  
Citizenship Japan

**DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, we hereby declare that our residence, post office address and citizenship are as stated below next to our names: that we verily believe we are the original, first and joint inventors of and the subject matter claimed and for which a patent is sought in the application entitled: **CHLAMYDIA OLIGOSACCHARIDES**, which application has Serial No. 09/230,346 filed 25 January 1999; that we reviewed and understand the contents of the specification of the above-identified application, including the claims; that we acknowledge our duty to disclose information of which we are aware which is material to the patentability of this application under 37 C.F.R. 1.56;

We hereby claim the benefit of Title 35, United States Code §120 of any United States applications listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in a listed prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, We acknowledge our duty to disclose any information material to the patentability of this application under 37 C.F.R. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.  
08/672,849

Country  
US

Filing Date  
7/25/96

Priority Claimed  
No

We hereby appoint John H. Mion, Reg. No. 18,879; Thomas J. Macpeak, Reg. No. 19,292; Robert J. Seas, Jr., Reg. No. 21,092; Darryl Mexic, Reg. No. 23,063; Robert V. Sloan, Reg. No. 22,775; Peter D. Olexy, Reg. No. 24,513; J. Frank Osha, Reg. No. 24,625; Waddell A. Biggart, Reg. No. 24,861; Louis Gubinsky, Reg. No. 24,835; Neil B. Siegel, Reg. No. 25,200; David J. Cushing, Reg. No. 28,703; John R. Inge, Reg. No. 26,916; Joseph J. Ruch, Jr., Reg. No. 26,577; Sheldon I. Landsman, Reg. No. 25,430; Richard C. Turner, Reg. No. 29,710; Howard L. Bernstein, Reg. No. 25,665; Alan J. Kasper, Reg. No. 25,426; Kenneth J. Burchfiel, Reg. No. 31,333; Gordon Kit, Reg. No. 30,764; Susan J. Mack, Reg. No. 30,951; Frank L. Bernstein, Reg. No. 31,484; Mark Boland, Reg. No. 32,197; William H. Mandir, Reg. No. 32,156; Scott M. Daniels, Reg. No. 32,562; Brian W. Hannon, Reg. No. 32,778; Abraham J. Rosner, Reg. No. 33,276; Bruce E. Kramer, Reg. No. 33,725; Paul F. Neils, Reg. No. 33,102; Brett S. Sylvester, Reg. No. 32,765; Robert M. Masters, Reg. No. 35,603 and George F. Lehnigk, Reg. No. 36,359, our attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to **SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC**, 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that the statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing therefrom.

Date			First Inventor	Cho-chou Kuo		
				First Name	Middle Initial	Last Name
Residence	Seattle	WA/USA	Signature			
	City	State/Country				
Post Office Address:	Department of Pathobiology, Box 357238 University of Washington Seattle, WA 98195					
Citizenship	USA					

Date \_\_\_\_\_ Second Inventor Albertina F. Swanson  
First Name Middle Initial Last Name  
Residence Tucson AZ/USA Signature \_\_\_\_\_  
City State/Country  
Post Office Address: 10400 W. Ruelas Rd.  
Tucson, AZ 85743  
\_\_\_\_\_  
\_\_\_\_\_  
Citizenship USA

Date Feb 19, 1999 Third Inventor Sen-Itiroh Hakomori  
First Name Middle Initial Last Name  
Residence Seattle WA/USA Signature Sen-Itiroh Hakomori  
City State/Country  
Post Office Address: Pacific Northwest Research Foundation  
720 Broadway  
Seattle, WA 98122  
\_\_\_\_\_  
\_\_\_\_\_  
Citizenship USA

Date \_\_\_\_\_ Fourth Inventor Noriko Takahashi  
First Name Middle Initial Last Name  
Residence Aichi JAPAN Signature \_\_\_\_\_  
City State/Country  
Post Office Address: 1-105 Shoen-cho, Mizuho-ku  
Nagoya 467  
Japan  
\_\_\_\_\_  
\_\_\_\_\_  
Citizenship Japan

SOLE/JOINT

**DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, we hereby declare that our residence, post office address and citizenship are as stated below next to our names: that we verily believe we are the original, first and joint inventors of and the subject matter claimed and for which a patent is sought in the application entitled: **CHLAMYDIA OLIGOSACCHARIDES**, which application has Serial No. 09/230,346 filed 25 January 1999; that we reviewed and understand the contents of the specification of the above-identified application, including the claims; that we acknowledge our duty to disclose information of which we are aware which is material to the patentability of this application under 37 C.F.R. 1.56;

We hereby claim the benefit of Title 35, United States Code §120 of any United States applications listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in a listed prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, We acknowledge our duty to disclose any information material to the patentability of this application under 37 C.F.R. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.	Country	Filing Date	Priority Claimed No
08/672,849	US	7/25/96	

We hereby appoint John H. Mion, Reg. No. 18,879; Thomas J. Macpeak, Reg. No. 19,292; Robert J. Seas, Jr., Reg. No. 21,092; Darryl Mexic, Reg. No. 23,063; Robert V. Sloan, Reg. No. 22,775; Peter D. Olexy, Reg. No. 24,513; J. Frank Osha, Reg. No. 24,625; Waddell A. Biggart, Reg. No. 24,861; Louis Gubinsky, Reg. No. 24,835; Neil B. Siegel, Reg. No. 25,200; David J. Cushing, Reg. No. 28,703; John R. Inge, Reg. No. 26,916; Joseph J. Ruch, Jr., Reg. No. 26,577; Sheldon I. Landsman, Reg. No. 25,430; Richard C. Turner, Reg. No. 29,710; Howard L. Bernstein, Reg. No. 25,665; Alan J. Kasper, Reg. No. 25,426; Kenneth J. Burchfiel, Reg. No. 31,333; Gordon Kit, Reg. No. 30,764; Susan J. Mack, Reg. No. 30,951; Frank L. Bernstein, Reg. No. 31,484; Mark Boland, Reg. No. 32,197; William H. Mandir, Reg. No. 32,156; Scott M. Daniels, Reg. No. 32,562; Brian W. Hannon, Reg. No. 32,778; Abraham J. Rosner, Reg. No. 33,276; Bruce E. Kramer, Reg. No. 33,725; Paul F. Neils, Reg. No. 33,102; Brett S. Sylvester, Reg. No. 32,765; Robert M. Masters, Reg. No. 35,603 and George F. Lehnigk, Reg. No. 36,359, our attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to **SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC**, 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that the statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing therefrom.

Date	First Inventor			Cho-chou Kuo		
Residence	Seattle	WA/USA	Signature	First Name	Middle Initial	Last Name
	City	State/Country				
Post Office Address:	Department of Pathobiology, Box 357238 University of Washington Seattle, WA 98195					
Citizenship	USA					

Date \_\_\_\_\_ Second Inventor Albertina F. Swanson  
 Residence Tucson AZ/USA Signature \_\_\_\_\_  
 City Tucson State/Country \_\_\_\_\_  
 Post Office Address: 10400 W. Rudasil Rd.  
Tucson, AZ 85743  
 Citizenship USA

Date \_\_\_\_\_ Third Inventor Sen-Itiroh Hakomori  
 Residence Seattle WA/USA Signature Sen-Itiroh Hakomori  
 City Seattle State/Country \_\_\_\_\_  
 Post Office Address: Pacific Northwest Research Foundation  
720 Broadway  
Seattle, WA 98122  
 Citizenship USA

Date Feb. 22, 1999 (N.T) Fourth Inventor Noriko Takahashi  
 Residence Nagoya JAPAN Signature Noriko Takahashi  
 City Aichi State/Country \_\_\_\_\_  
 Post Office Address: 1-105 Shoci-cho, Mizuho-ku  
Nagoya 467  
Japan  
 Citizenship Japan



## Assignment

Whereas, We, Cho-chou Kuo, Albertina F. Swanson, Sen-Itiroh Hakomori and Noriko Takahashi, respectively, hereinafter called assignors, have invented certain improvements in CHLAMYDIA OLIGOSACCHARIDES and executed an application for Letters Patent of the United States of America therefor on; and

Whereas, THE UNIVERSITY OF WASHINGTON, Seattle, Washington (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, and we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we hereby agree that the assignee may apply for foreign Letters Patent on the invention and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

We hereby authorize and request our attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3212 to insert here in parentheses (Application number 09/230,346, filed 25 January 1999) the filing date and application number of said application.

2/19/99  
Date: \_\_\_\_\_

Cho-Chou Kuo  
s/Cho-chou Kuo

\_\_\_\_\_  
Date: \_\_\_\_\_

\_\_\_\_\_  
s/Albertina F. Swanson

\_\_\_\_\_  
Date: \_\_\_\_\_

\_\_\_\_\_  
s/Sen-Itiroh Hakomori

\_\_\_\_\_  
Date: \_\_\_\_\_

\_\_\_\_\_  
s/Noriko Takahashi

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

## Assignment

Whereas, We, Cho-chou Kuo, Albertina F. Swanson, Sen-Itiroh Hakomori and Noriko Takahashi, respectively, hereinafter called assignors, have invented certain improvements in CHLAMYDIA OLIGOSACCHARIDES and executed an application for Letters Patent of the United States of America therefor on; and

Whereas, THE UNIVERSITY OF WASHINGTON, Seattle, Washington (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, and we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we hereby agree that the assignee may apply for foreign Letters Patent on the invention and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

We hereby authorize and request our attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3212 to insert here in parentheses (Application number 09/230,346, filed 25 January 1999) the filing date and application number of said application.

Date:

3-5-99  
Date:

\_\_\_\_\_  
s/Cho-chou Kuo

Albertina F. Swanson  
s/Albertina F. Swanson

Date:

\_\_\_\_\_  
s/Sen-Itiroh Hakomori

Date:

\_\_\_\_\_  
s/Noriko Takahashi

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

8/92

## Assignment

Whereas, We, Cho-chou Kuo, Albertina F. Swanson, Sen-Itiroh Hakomori and Noriko Takahashi, respectively, hereinafter called assignors, have invented certain improvements in CHLAMYDIA OLIGOSACCHARIDES and executed an application for Letters Patent of the United States of America therefor on; and

Whereas, THE UNIVERSITY OF WASHINGTON, Seattle, Washington (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, and we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we hereby agree that the assignee may apply for foreign Letters Patent on the invention and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

We hereby authorize and request our attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3212 to insert here in parentheses (Application number 09/230,346, filed 25 January 1999) the filing date and application number of said application.

Date: \_\_\_\_\_

\_\_\_\_\_  
s/Cho-chou Kuo

Date: \_\_\_\_\_

\_\_\_\_\_  
s/Albertina F. Swanson

Feb 19, 1999  
Date: \_\_\_\_\_

*Sen-Itiroh Hakomori*  
s/Sen-Itiroh Hakomori

Feb 22, 1999  
Date: \_\_\_\_\_

*Noriko Takahashi*  
s/Noriko Takahashi

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)